

Appl. No. 09/767,558

**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

**In the Claims:**

Please amend Claims 1, 5 and 16 as follows.

1. (Amended) A polysulfone semipermeable membrane, the polysulfone semipermeable membrane comprising a mixture of: a polysulfone compound and a solvent for the polysulfone compound, and the polysulfone semipermeable membrane having a homogeneous structure such that the polysulfone semipermeable membrane has a substantially uniform pore structure throughout a thickness of the polysulfone semipermeable membrane.

5. (Amended) A polysulfone semipermeable membrane defined by a composition comprising a mixture of a polysulfone compound, a solvent for the polysulfone compound, and a non-solvent for the polysulfone compound, and the polysulfone semipermeable membrane having a homogeneous structure such that the polysulfone semipermeable membrane has a substantially uniform pore structure throughout a thickness of the polysulfone semipermeable membrane.

16. (Amended) A polysulfone semipermeable membrane having a substantially uniform pore structure throughout a thickness dimension of the membrane, the polysulfone semipermeable membrane being constructed from a mixture of a polysulfone compound selected from the group consisting of a polyarylsulfone compound, bisphenol A polysulfone, polyether polysulfone, polyphenyl polysulfone, and mixtures thereof, and a solvent for the polysulfone compound selected from the group consisting of tetramethylene sulfone, 3-methyl sulfolane, benzophenone, n,n-dimethylacetamide, 2-pyrrolidone, 3-methylsulfolene, pyridine, thiophene, o-dichlorobenzene, 1-chloronaphthalene, methyl salicylate, anisole, o-nitroanisole, diphenyl ether, diphenoxy methane, acetophenone, p-methoxyphenyl-2-ethanol, 2-piperidine, antipyrine, 8-valerolactam, diethyl phthalate, diphenyl sulfone, diphenyl sulfoxide, phthalic acid, dioctyl ester, phthalic acid, dimethyl ester, phthalic acid, diethyl ester, phthalic acid, dibutyl ester, phthalic acid, bis(2-ethylhexyl) ester, phthalic acid, benzyl butyl ester, phenyl sulfide, and mixtures thereof.